



Shri Vaishnav Vidyapeeth Vishwavidyalaya
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) Scheme in the light of NEP-2020
B.Tech. in Robotics and Automation

SEMESTER-V (2021-2025)

| SEMESTER V (2021-2022) | | | | | | | | | | | | |
|------------------------|-------------|------------------------------------|----------------------|---|----|---------|-------------------------------|---------------------|----------------------------|-------------------------------|----------------------------|-------------|
| S. No. | COURSE CODE | COURSE NAME | TEACHING SCHEME/WEEK | | | CREDITS | EXAMINATION SCHEME | | | | | TOTAL MARKS |
| | | | L | T | P | | THEORY | | | PRACTICAL | | |
| | | | | | | | End Sem University Exam (60%) | Two Term Exam (20%) | Teachers Assessment* (20%) | End Sem University Exam (60%) | Teachers Assessment* (40%) | |
| 1 | BTEI401 | Microprocessor and Microcontroller | 3 | 1 | 2 | 5 | 60 | 20 | 20 | 30 | 20 | 150 |
| 2 | BTME503 | Dynamics of Machine | 3 | 0 | 2 | 4 | 60 | 20 | 20 | 30 | 20 | 150 |
| 3 | BTRA501 | Robotic Engineering | 3 | 1 | 0 | 4 | 60 | 20 | 20 | 0 | 0 | 100 |
| 4 | - | Elective I | 3 | 1 | 2 | 5 | 60 | 20 | 20 | 30 | 20 | 150 |
| 5 | - | MOOCs II | - | - | - | 2 | - | - | - | - | 50 | 50 |
| 6 | BTME510 | Design Thinking and Innovation | 2 | 0 | 0 | 2 | 60 | 20 | 20 | 0 | 0 | 100 |
| 6 | BTRA503 | Minor Project | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 30 | 20 | 50 |
| 7 | BTEC507 | Programming in Python | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 30 | 20 | 50 |
| TOTAL | | | 14 | 3 | 12 | 25 | 300 | 100 | 100 | 150 | 150 | 800 |

Legends: L - Lecture ; T - Tutorial/Teacher Guided Student Activity ; P - Practical ;

***Teacher Assessment shall be based on following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.**

*** Students have to compulsorily opt MOOCs course of two credit from Swayam Portal**

| S. No. | Course Code | Elective I |
|--------|-------------|-----------------------------------|
| 1 | BTMT501 | Applied Hydraulics and Pneumatics |
| 2 | BTEI611 | Data Acquisition System |
| 3 | BTRA512 | Industrial Automation |

Chairperson
 Board of Studies
 Shri Vaishnav Vidyapeeth
 Vishwavidyalaya, Indore

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 Shri Vaishnav Vidyapeeth
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Controller of Examinations
 Shri Vaishnav Vidyapeeth
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Joint Registrar
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 Shri Vaishnav Vidyapeeth
 Vishwavidyalaya, Indore
 22/9/2023